UTILITY PATENT APPLICATION **TRANSMITTAL**

Attorney Docket No. 2072.0010008/LBB/SJE First Inventor Michelle H. Hanna Abortive Promoter Cassettes (as amended) Title

(Only for t	iew nonprovisional applic	ations under 37 CFR 1.53(b))	Express	Mail Label No.						
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.			ADDRE	ADDRESS TO: Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450						
(Submit 2. X Applica See 37 3. X Specifi (preferr - Descr - Cross - Stater - Referr or a cr - Back - Brief I - Detail - Claim - Abstra	ed arrangement set forth iptive title of the invention Reference to Related Agenet Regarding Fed spotence to sequence listing, amputer program listing a ground of the Invention Summary of the Invention Description of the Drawined Description	state for fee processing) status. Total Pages 129] below) poplications nsored R & D a table, appendix gs (if filed)	8. Nuc (if ap a. b.	Specifical i. CD- ii. X Pap Statemer ACCOMPAN Assignment F 37 CFR 3.73(ram (Appending Appending A	equence Subsection (CRF) ce Listing on: -R (2 copies) identity of ab PLICATIO r sheet & door	ove copies N PART: cument(s)) Power of	S		
5. Oath or Declaration [Total Sheets2] a Newly executed (original or copy) b Copy from a prior application (37 CFR 1.63(d))				(when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Authorization under 37CFR 1.136(a)(3) The name of the assignee is: Ribomed Biotechnologies, In						
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: X Continuation Divisional Continuation-in-part (CIP) Of prior application No.: 09/984,664										
Prior application information: Examiner Kim, Young L. Art Unit: 1637 For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.										
19. CORRESPONDENCE ADDRESS 26111 OR Correspondence address below										
Customer Number: 20111 OR Correspondence address below Name Sterne, Kessler, Goldstein & Fox P.L.L.C.										
Address										
City	State Zip Code									
Country			Telephone			Fax				
Name (Print/Type) Lawrence B. Bugaisky Registration No. (Attorney/Agent)					3	35,086				
Signature Laurence B. Begangh Date Mure						3 2004				
						اماطيير مااطيير مر				

This collection of information is required by 37 CFR 1.63(b). The information is required to obtain or retain a benefit by the public USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/17 (10-03)
Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL			Complete if Known					
C FEE IRAN	21111	IIAL	Application Number	To be assigned				
for FY	200	1	Filing Date	March 3, 2004 Michelle H. Hanna To be assigned To be assigned				
Effective 10/01/2003. Patent fees are	_		First Named Inventor					
			Examiner Name					
Applicant claims small entity status	s. See 37 (CFR 1.27	Art Unit					
TOTAL AMOUNT OF PAYMENT	(\$)	556.00	Attorney Docket No.	2072.0010008/LBB/SJE				

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)						
Check X Credit card Money X Other** None	3. ADDITIONAL FEES						
*Charge any deficiencies or credit any overpayments in	L <u>arge l</u>	Entity	Small	Entity			
Deposit Account: the fees to Deposit Acct. No. 19-0036.	Fee			Fee	Fee Description		
Deposit	Code 1051	(\$) 130	Code 2051	(\$)	Surcharge - late filing fee or oath	Fee Paid	
Number Deposit	1051	50	2052		Surcharge - late minig fee of oath		
Account Sterne Kessler, Goldstein & Fox P.L.L.C.	1052	50	2052	23	cover sheet		
Name The Director is authorized to: (check all that apply)	1053	130	1053		Non-English specification		
Charge fee(s) indicated below Credit any overpayments	1812	2,520	1812	_,	For filing a request for ex parte reexamination		
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action		
Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*	Requesting publication of SIR after		
to the above-identified deposit account.		·		•	Examiner action		
FEE CALCULATION	1251	110	2251	55	Extension for reply within first month		
1. BASIC FILING FEE	1252	420	2252	210	Extension for reply within second month		
Large Entity Small Entity	1253	950	2253	475	Extension for reply within third month		
Fee Fee Fee Fee Fee Paid Code (\$) Code (\$)	1254	1,480	2254	740	Extension for reply within fourth month		
1001 770 2001 385 Utility filing fee	1255	2,010	2255	1,005	Extension for reply within fifth month	 	
1002 340 2002 170 Design filing fee 385 00	1401	330	2401	165	Notice of Appeal		
1003 530 2003 265 Plant filing fee	1402	330	2402	165	Filing a brief in support of an appeal		
1004 770 2004 385 Reissue filing fee	1403	290	2403	145	Request for oral hearing		
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510	Petition to institute a public use proceeding		
SUBTOTAL (1) (\$) 385.00	1452	110	2452	55	Petition to revive - unavoidable		
	1453	1,330	2453	665	Petition to revive - unintentional		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501	1,330	2501	665	Utility issue fee (or reissue)		
Extra Claims below Fee Paid	1502	480	2502	240	Design issue fee		
Total Claims 38 -20 **= 18 X 9.00 = 171.00	1503	640	2503	320	Plant issue fee		
Independent 2 - 3 **= 0 X 0.00 = 0.00	1460	130	1460	130	Petitions to the Commissioner		
Multiple Dependent $0 = 0.00$	1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	<u> </u>	
Large Entity Small Entity	1806	180	1806	180	Submission of Information Disclosure Stmt		
Fee Fee Fee Fee <u>Fee Description</u> Code (\$)	8021	40	8021	40	Recording each patent assignment per property (times number of properties)		
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))		
1203 290 2203 145 Multiple dependent claim, if not paid	1810	770	2810	385	For each additional invention to be		
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801	385	examined (37 CFR 1.129(b)) Request for Continued Examination (RCE)		
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802	900	•		
	Other	fee (sp	ecify) _				
SUBTOTAL (2) (\$) 171.00	*Redu	ced by	Basic I	Filing F	ee Paid SUBTOTAL (3)	0.00	

SUBMITTED BY	(Complete (i	(if applicable))			
Name (Print/Type)	Lawrence B. Bugaisky	Registration No. (Attorney/Agent)	35.086	Telephone	(202) 371-2600
Signature	Lawre B. Bugarde			Date	March 3, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Robert Greene Sterne Edward J. Kessler Jorge A. Goldstein David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michele A. Cimbala Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee Steven R. Ludwig John M. Covert Robert C. Millonig Lawrence B. Bugaisky Donald J. Featherstone Michael V. Messinger

Timothy J. Shea, Jr. Patrick E. Garrett Patrick E. Garrett Heidi L. Kraus Edward W. Yee Albert L. Ferro* Donald R. Banowit Peter A. Jackman Teresa U. Medler Jeffrey S. Weaver Kendrick P. Patterson Vincent L. Capuano Eldora Ellison Floyd Thomas C. Fiala Brian J. Del Buono Virgil Lee Beaston Kimberly N. Reddick Theodore A. Wood

Elizabeth J. Haanes Joseph S. Ostroff Frank R. Cottingham Christine M. Lhulier Lawrence J. Carroll* George S. Bardmesser Daniel A. Klein* Jason D. Eisenberg Michael D. Specht Andrea J. Kamage Tracy L. Muller* ne M. DeSantis John J. Figueroa Ann E. Summerfield Tiera S. Coston* Aric W. Ledford*

Michael D. Specht Jessica L. Parezo Timothy A. Doyle* Cynthia M. Bouchez Nicole D. Dretar* Ted J. Ebersole

Registered Patent Agents • Karen R. Markowicz Karen R. Markowic Nancy J. Leith Helene C. Carlson Gaby L. Longsworth Matthew J. Dowd Aaron L. Schwartz Mary B. Tung Katrina Y. Pei Quach Bryan L. Skelton Robert A. Schwartzman

Mail Stop Patent Application

Teresa A. Colella Jeffrey S. Lundgren Victoria S. Rutherford Eric D. Hayes Mirbelle K. Holoubek Mita Mukerjee Scott M. Woodhouse Evan R. Smith Marvin C. Guthrie Admitted only in Maryland Admitted only in Virginia Practice Limited to Federal Agencies

March 3, 2004

WRITER'S DIRECT NUMBER: (202) 772-8589 INTERNET ADDRESS: LARRYB@SKGF.COM

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

(Continuation of Appl. No. 09/984,664; Filed: October 30, 2001)

Appl. No. To be assigned; Filed: March 3, 2004 Abortive Promoter Cassettes (as amended)

Inventor:

For:

Michelle H. Hanna

Our Ref:

2072.0010008/LBB/SJE

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- Form PTO-2038 Credit Card Payment Form for \$511.00 to cover: 1. \$385.00 Filing Fee for Patent Application (37 C.F.R. § 1.116); \$126.00 Extra Claim Fee (37 C.F.R. § 1.116);
- 2. Fee Transmittal Form (PTO/SB/17);
- 3. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- Authorization to Treat a Reply As Incorporating An Extension of Time 4. Under 37 C.F.R. § 1.136(a)(3);
- 5. U.S. Utility Patent Application entitled:

Molecular Detection Systems Utilizing Reiterative Oligonucleotide Synthesis

and naming as inventor:

Michelle H. Hanna

Sterne, Kessler, Goldstein & Fox PLLC: 1100 New York Avenue, NW Washington, DC 20005 : 202.371.2600 f 202.371.2540 : www.skqf.com

the application consisting of:

- a. An Application Data Sheet (37 C.F.R. § 1.76);
- b. A specification containing:
 - i. 101 pages of description prior to the claims;
 - ii. 27 pages of claims (135 claims);
 - iii. a one (1) page abstract;
- c. 33 sheets of drawings: (Figures 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29A, 29B, 29C, 30 and 31);
- d. 16 pages of a Sequence Listing;
- e. A copy of the executed Declaration, as originally filed in U.S. Appl. No. 09/984,664;
- 6. Request to Approve Proposed Drawing Correction;
- 7. Photocopy of the six (6) sheets of drawings (Figures 3, 13, 14, 15, 30, and 31) with the corrections noted in red;
- 8. Clean copies of seven (7) sheets of replacement drawings (Figures 3, 13, 14, 15, 29A, 29B, and 30);
- 9. Request to Open New Disk File;
- 10. Preliminary Amendment;
- 11. Information Disclosure Statement;
- 12. Form PTO-1449 (20 sheets citing 90 documents); and
- 13. Two (2) return postcards.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Commissioner for Patents March 3, 2004 Page 3

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Lawrence B. Bugaisky

Attorney for Applicant

Registration No. 35,086

LBB/SJE/lam Enclosures

227347.1



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Michelle H. Hanna

Appl. No.: To be assigned

Filed: March 3, 2004

For: Abortive Promoter Cassettes (as

amended)

Confirmation No.: To be assigned

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket: 2072.0010008/LBB/SJE

Authorization to Treat a Reply as Incorporating an Extension of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Lawrence B. Bugaisky

Attorney for Applicant

Registration No. 35,086

Date: <u>March</u> 3, 2004

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

231504.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Michelle H. Hanna

Appl. No.: To be assigned

Filed: March 3, 2004

For: Abortive Promoter Cassettes (as

amended)

Confirmation No.: To be assigned

Art Unit: To be assigned

Examiner: To be assigned

Atty. Docket: 2072.0010008/LBB/SJE

Request to Approve Proposed Drawing Corrections

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

Attached are copies of six sheets of drawings, containing proposed corrections to Figures 3, 13, 14, 15, 30 and 31, shown in red. The proposed changes add no new matter to this application. Applicant requests that the Examiner approve the proposed corrections. After official communication of such approval, Applicant will make the appropriate corrections to the formal drawings.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Lawrence B. Bugaisky Attorney for Applicant

Registration No. 35,086

Date: <u>March 3, 2004</u>

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

231439.1